HWAS-290G / 290GN

User Manual

برای تغییر زبان دستگاه از تایوانی به انگلیسی لطفا را زده تا وارد منو شوید سپس با دکمه پایین بر روی منوی رفته و با دکمه وارد شوید سپس بر روی گزینه اول را زده و سپس بر روی گزینه دوم زده و سپس English را انتخاب کنید تا زبان دستگاه تغییر کند

تعریف ریموت و سنسور ها:

در منوی دستگاه وارد گزینه security شده و رمز ۱۲۳۴۵۶ را وارد کنید سپس گزینه دوم یعنی wired/wireless device رفته و سپس گزینه دوم یعنی Register wireless device را انتخاب کرده و برای تعریف ریموت قفل باز ریموت را زده و عدد صفر را بزنید تا تعریف شود و برای تعریف سنسورها سنسور مورد نظر را تحریک کنید و سپس شماره زون دلخواه از ۱ تا ۱۶ را زده و تایید کنید (زون ۱ مربوط به زون چایم یا دینگ دانگ در صورت نیاز، زون ۲ تا۴ زون ۲۴ ساعته مخصوص دود و گاز و زون ۵ تا ۱۱ زون معمولی و زون ۱۲ و۱۳ زون پارت یا داخلی و زون ۱۴و۱۵ زون تاخیری می باشند)

تعریف شماره تلفن ها از ۱ تا ۶ و تعریف sms ها برای هر زون و ضبط پیغام در زیرمنوهای قسمت security و سپس Alarm setting می باشد

سایر تنظیمات در قسمت Parameter setting می باشد

Simple operation flow

1. Insert the simcard to the slot of the back cover and push it down tight.
2. Turn the switch beside the simcard slot to ON to enable the built-in battery
3. Plug the adaptor
4. the panel is turned on, the screen lights
5. Panel screen shows the time/date. Enter the current time in the sequence of hour-minute (24 hours mode), and then press the down key and enter thecurrent date in the sequence of year-month-date. Then press ok key to save it.

Register the wireless remote/sensor

once received the product, please test it first. Because the accessories have registered already.

All the following operation are done in the disarmed state

6. Register remote: Press ↩ key — panel shows "alarm system" — press ↩ key — panel shows "enter the password" — enter the default password 123456 (it could be modified) — press ↩ — press down key to choose "wired/wireless device"— press ↩ — choose "register wireless device" — press . It shows trigger the wireless device --- press the disarm key of the remote, it shows "choose the zone" — choose the remote zone— press ↩ to save it.
Test the registered remote: In the disarm and non-calling state, press the arm key of the remote, the panel sounds and display armed. It means the remote is registered and could control the panel.

7. Register door sensor/pir: Press ↩ key — panel shows "alarm system"—press ↩ key — panel shows "enter the password" — enter the default password123456 (it could be modified) — press ↩ — press down key to choose
"wired/wireless device" — press ↩ — choose "register wireless device" —press ↩ It shows trigger the wireless device — trigger the door sensor or pir to transmit
the wireless code to panel — panel gets the code and it shows "choose the zone" —choose the zone number — press ↩ to save it.

Test door sensor: Use the remote to arm the panel, and then trigger the door sensor you have registered. Panel alarms and activates the siren, and that means the sensor is registered.

Alarm number setting

alarm tel number:when the host sound an alarm ,it will send sms to tel number that you setted before or dail a call to notify the user

8. Alarm number is the number that panel would auto dial or text when it alarms. Press ↩ key — panel shows "alarm system"— press ↩ key — panel shows"enter the password" — enter the default password 123456 (it could be modified) press ↩ and choose "alarm setting" — press and choose"alarm no. setting" — press ↩ and it shows "alarm no. 1" enter the number you plan to set —press ↩ to save it.

Zone explanation

Remote control zone this zone is for remote control only.

Doorbell zone it is an independent zone for the sensor or button working as the doorbell. User could set a time period for the zone, and during the set period, once the sensor/button of this zone is triggered, it would make a doorbell sound.

24 hours zone sensor in this zone would alarm either in armed or disarmed state. It is armed 24 hours.

Normal zone Sensor in this zone would alarm in armed state.

Stay zone: the sensors in this zone would not alarm when user stay arms the panel. They only work when user away arms the panel.

Delay zone Sensor in this zone would arm after a preset delay timer, so that user has enough time to leave the area.
Also when the user comes back, the sensor would not alarm immediately, so that the user has enough time to disarm the panel.

Metal GSM Alarm System

User Manual

Thanks for choosing our product, please kindly read this manual carefully before installing it

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Back cover: Quick reference

Function and specification

Function:

1. Dot matrix lcd display, chord ringtone, voice record and menu operation
2. 16 zones, 16 wired, 240 wireless connections, 16 NC/NO output (binding with zones)
3. 6 alarm numbers, auto dial and/or group text are optional
4. Alarm number and text content are programmable on the panel
5. Record different voices for different zones or alarms, the voice would be auto played when alarming
6. Remote control: remote speak, remote arm/disarm, remote turn on/off the siren
7. Exclusive sensor or button doorbell zone, which could work with various sensors and buttons with exclusive chord ringtone.
8. Timed auto arm/disarm
9. Main fails alarm
10. Built-in siren with external siren optional
11. 4.2V/1000mAh rechargeable lithium battery lasts for 48 hours when power fails
12. Standard RS48 interface, 64pcs node repeater expandable (mode B)

Specification:

Wireless frequency:	315/433 MHz (optional)
Gsm frequency:	850/900/1800/1900mhz
Working voltage:	DC 12V-2A
Backup battery:	1000mah/4.2v lithium rechargeable
Backup hours:	48h
Working conditions:	temperature -20-60℃ humidity≦95%
Recording duration:	180seconds

It could match all the following sensors:

1. Encoding IC: 2262/2260 timing resistor: 4.7M
2. Encoding IC: 1527 timing resistor: 430K
3. CPU encoding, conform to the above 2 rules
4. The wireless transmitting frequency is same as that of the panel

Panel interface introduction

Key explanation:

Navigation left-right key: left-inbox, right- write text

Navigation up-down key: up -missed call, down- answered call

(↵) key: enter the menu and confirm

(ESC) key: cancel, delete and backspace key

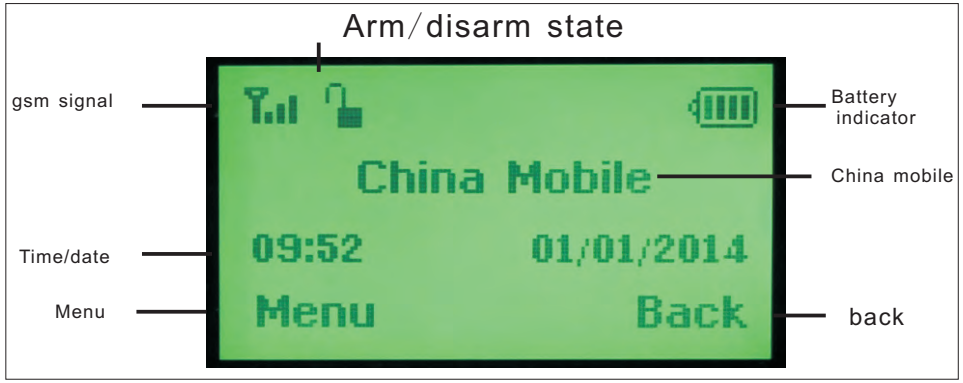
Arm key: press it to away arm, long press it to stay arm

Disarm key: Press it and then input the password to disarm

key: long press it to switch between audible/silent mode; in the SMS writing mode, press it to switch input method.

* key: during words input, it is used to access punctuation marks; during time input, it is used to access colon.

Numeric key: it is to input numbers.

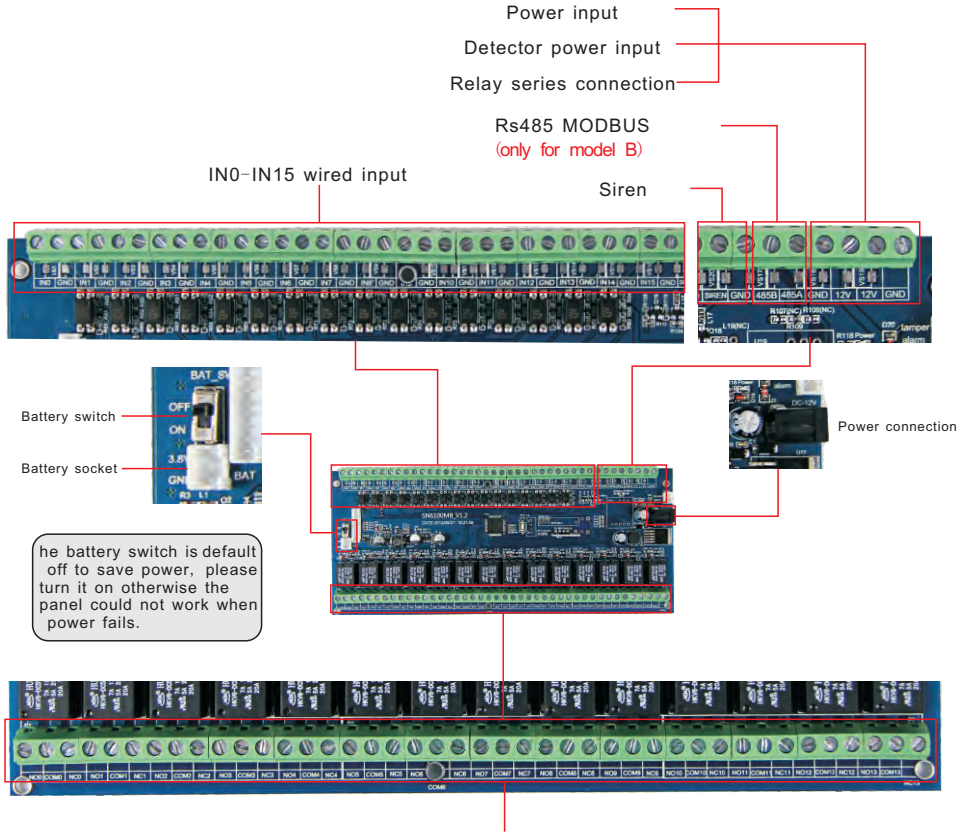


and ESC key correspond to the "menu" and "back" on the screen

disarmed

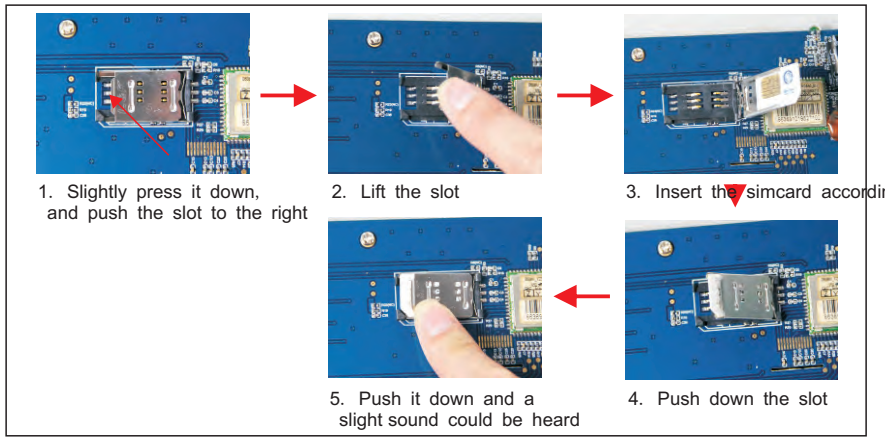
armed

stay armed


Power input
Detector power input
Relay series connection
Rs485 MODBUS
(only for model B)
IN0-IN15 wired input
Siren
Battery switch
Battery socket
Power connection
he battery switch is default off to save power, please turn it on otherwise the panel could not work when power fails.

The relay output (could work as a switch to control external device, like, lights, etc. max load is 1000w

How to insert the sim card


1. Slightly press it down, and push the slot to the right
2. Lift the slot
3. Insert the simcard accordingly
4. Push down the slot
5. Push it down and a slight sound could be heard

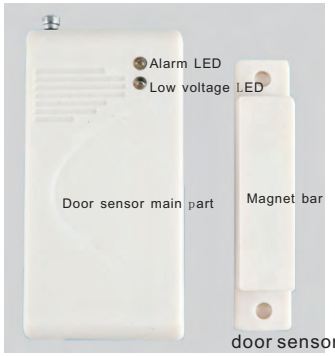
Accessories

Input voltage: 5v DC
Horn level: 110db
Working current: 180ma

Working voltage: 12V DC Static current: 0 uA
Working current: < 20mA
Transmitting frequency: 315/433MHz
Transmitting distance: ⩾ 50m (in the open air)
Away arm: arm all the sensors
Stay arm: arm all the sensors in the external zones
SOS: ask urgent help
Disarm: disarm the panel or stop the alarming

Power supply:
Input voltage: 220v AC
Input frequency: 50 Hz
Output voltage: 12V DC
Load current: 2A
Working temperature: - 1 0℃- - 7 5℃

The above product picture is only for illustration, the actual product may have nothing to do with the picture



Working voltage: 12V DC
Static current: 0.1 uA
Working current: < 20mA
Frequency: 315/433MHz
Transmitting distance: ⩾ 200m (in the open air)
Detection gap ⩾ 20mm
Indoor use only. Do not fall.

Indoors only, do not fall. The main part is installed on the door frame, and the magnet part is installed on the door.

Installation height: 1. 8-2. 5m
Detecting range: 7-13m
Operating Voltage: 9V
Static current: 30uA
Transmit Frequency: 433/315 MHz
Installation angle: ±1 5°against the wall
Transmit Distance: 100m (in the open air)

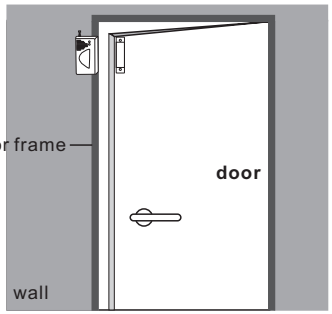
Do not face the sunshine directly
Do not face cold or heat directly
Do not face the strong airflow
Do not face the fluttering curtain directly

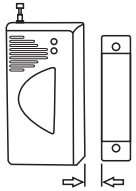
Other commonly used sensors:

1. Wired/Wireless Smoke detector: (optional)
The Smoke detector is used to detect potentially dangerous smoke emissions at home. Once the detector detects the presence of smoke as a danger and possible fire risk it will transmit an alarm signal to the control panel and also activate its own integral local siren.
2. Wired/Wireless Combustible Gas detector: (optional)
The combustible gas detector will detect potentially dangerous gas emissions within its location. It should be fitted in any area where there is a possibility or risk of gas leaks or emissions. Once the combustible gas detector detects unacceptable levels of combustible gas it will transmit an alarm signal to the control panel and also activate its own integral local siren. It could also work with the auto shut-off valve.
3. Wired/wireless shock sensor
The shock sensor is used to detect the strength of the shock. Fix the shock sensor on the object you want to protect, and it would alarm and transmit the alarm signal to the control panel when the strength of the shock exceeds the preset value.

Accessory Installation

1. Door sensor install

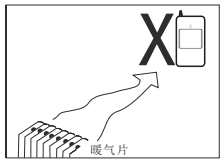




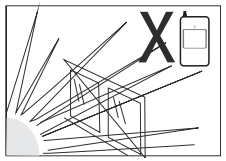
Make sure the space between is less than 10mm

Mount the wireless transmitter and the magnet respectively on the door frame and the door（usually in the upper edge of the door and frame）. Clean the position where install the door sensor. Stick the double sided tape with adhesive or screw them firmly. The transmitter and magnet should be parallel and the interval distance less than 10mm

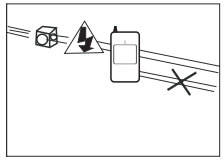
Pir sensor installation



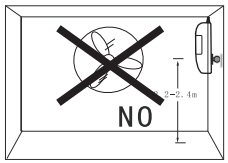
Do not face the cold and heat directly



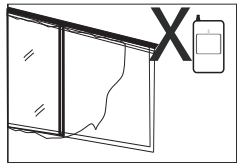
Do not face the sunshine directly



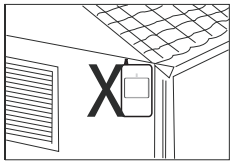
Do not install it near the electric cable



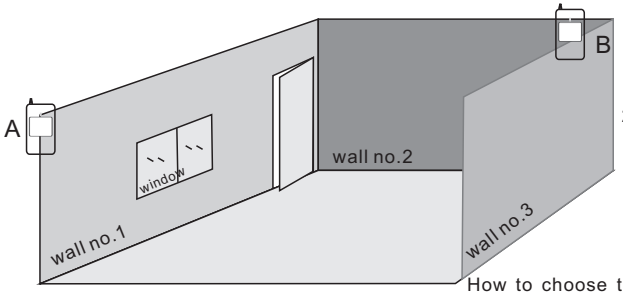
Do not face the airflow



Do not face the fluttering curtain directly



Do not install it outdoors



1 Position A is better than B according to the performance of infrared
2 Put the sensor at position A where it could protect doorway, aisle and window, a wider range.

A. On the NO. 4 wall（not shown in the pic）facing the door
B. On the no. 3 wall facing the door

How to choose the installation place：

1. Walk directly facing the pir lens, the sensitivity is low; walk perpendicular to the pir lens, the sensitivity is high.
2. Install it at the aisle, entrance and indoors.

Alarm system menu and function introduction

Alarm System

Alarm Setting:

- Alarm number setting— 6 group alarm numbers are programmable
- Alarm mode— call, text, or both
- Zone text setting— user could set the text content for each zone.
- Alarm voice setting— 180 seconds voice each zone could have a different recording
- Sounder/silent alarm：user could turn on/off the inside siren
- Group message：the alarm and command texts could be sent together or in one-way

Wired/wireless setting:

- Enable the wired zone— choose to enable or neglect the wired zone
- Register wireless device— program wireless remote and various sensor to the panel
- Delete wireless device— Delete the wrong or lost remote/sensors
- Delete all the wireless devices— clear all the wireless devices in the panel
- Output binding to zones— the wired relay output could bind with a specific zone
- The number of BUS node setting：Set BUS node numbers, from 1 to 64（for model B only）
- BUS zone setting：set the node on/off（for model B only）
- BUS node relay control：set the node relay no. 0-7 on/off（for model B only）
- Test the sensor— the panel would sound a dingdong whenever you trigger a registered sensor.

Parameter setting:

- Password setting— set the password of the panel（the default one is：123456）
- Delay setting— set the arm delay, alarm delay time.
- Alarm duration— set the siren sounds time when the panel alarms
- Timed auto arm/disarm— set the auto arm/disarm time
- Away arm with siren on— the siren would sound when away arm the panel, so that user could hear the arm sound in a distance
- Low voltage warning tone— the panel would sound beep when the registered sensor battery is in low voltage.
- Delay arm with beep— the panel would sound beep when the panel is delay arming
- Main power fail alarm— the panel would alarm when the main power goes out
- Doorbell zone period setting— set the doorbell zone working in the set period
- Doorbell music setting— choose the music played when the doorbell zone is triggered
- Gsm no signal warning— the panel would sound if it detects there is no gsm signalfor 2 min（there is no warning tone by default）
- Arm/disarm with text report— user could get the text report of the panel state
- Reset— panel goes back to factory default setting

Event log:

- Alarm history— it shows the entire arm, disarm and alarming logs
- Memory state— it shows the number of registered sensor of each zone

Alarm system menu detail explanation

Alarm Setting

Alarm number setting— 6 group alarm numbers are programmable

Alarm mode— call, text, text and call, or local siren only; It is default to text/call the first no, if you need to text/call all the numbers, please activate the group message.

Zone text setting— a. User could edit the text content for each zone.
b. The default text is in this format: "zone 5 3 alarm" it means the sensor 3 of zone 5 is alarming

Alarm voice setting a. The voice would auto play when alarm.
b. 180 seconds voice (could be in multiple segments) each zone could have a different recording. Press record key to start recording and then backspace key to save it. Then you could bind the recording to each zone. When alarm, panel would first play the recording of the user address and then that of the alarm zone.

Sounder/silent alarm setting: user could choose to turn on/off the inside siren when alarm

Group message Enable this function is to make panel send text to all the alarm numbers when alarm. The default setting is to send text to the first no. only.

Wired/wireless device setting

Enable the wired zone The panel has 6 NC wired connections, when they are open, panel would alarm. Each wired connection could be enabled or disabled separately.

Register wireless device It could work with 16pcs remotes. It has 15 zones, and each zone could work with 16pcs sensors. Trigger the sensor you plan to register, panel would get its code and you choose a zone to save it; if the sensor is already registered, trigger it and the panel would show its number.

Delete wireless device: Choose the sensor you plan to delete, press ↩ key.

Delete all the wireless devices— clear all the wireless devices.

Output binding to zone— once a zone is triggered, the relay would be driven accordingly.
E. g. if you want zone 2 alarm and then relays closed. You could set it as follows: output bind to zone/zone 2/relay 0 (closed)/relay 1(closed)/at last, press backspace key to save it.

Relay load: **7A 125V AC / 5A 250V AC / 20A 14V DC**

Sensor test: It is to test whether the sensor is registered. The panel would display the sensor number if the sensor was registered.

Parameter setting

Password setting: set the password of the panel (default 123456)

Delay setting: arm/alarm delay timer: 0-120s; the delay timer is only for the delay zones. Default is 15s.

Alarm duration set the siren sounds time when the panel alarms, it could be set within 0-300s, default one is 60s.

Timed auto arm/disarm group auto arm/disarm time could be set; Press * to get ":"

Away arm with siren on— it requires connecting an external siren. The siren would sound once when user away arms the panel.

Low voltage warning tone— the panel would sound beep when the registered sensor battery is in low voltage. (only for the wireless sensor has low voltage transmitting function)

Delay arm with beep the panel would sound beep when the panel is delay arming. During this time, the panel would not alarm even if the sensor is triggered. Default delay timer is 15 seconds.

Main power fail alarm— the panel would alarm and send text to user when the main power goes out (this is default off) Please remember to turn on the battery switch.

Doorbell zone period setting set the doorbell zone working in the set time period, 3 periods could be set. Once this time is set, the panel would make a dingdong sound when the sensor in the doorbell zone is triggered during this period. Press * to get ":"

Doorbell music setting— choose the music played when the doorbell zone is triggered/ use up-down key to choose the music.

Gsm no signal warning— the panel would make a 2mintues long sound, if it detects there is no gsm signal for 2mintues.DC

Arm/disarm with text report— user could get the text report of the panel state.

E. g. if user uses the remote arm the panel, after that, he could get a text "remote no. 2 arms"

Reset— Press this to make panel go back to factory default setting, but it would not delete the registered device.

Event log

Alarm history— it shows the latest 20 events happened in the panel, it includes all the arm, disarm and alarming information with zone number, detector no and time stamp. Memory state— check the registered sensor numbers of each zone

Telephone system menu overview

- Phone book
- Text
- Call
- Tools
- set
  - phone set
    - Time/date
    - Lang. Chinese/English
    - Preferred input method
    - Airplane mode
    - Lcd backlight
  - Network setting
  - Security setting
  - External link
  - Factory reset Default password: 1122
  - Phone profile

Zone explanation and text command

Zone explanation

Remote control zone this zone is for remote control only.

Doorbell zone it is an independent zone for the sensor or button working as the doorbell. User could set a time period for the zone, and during the set period, once the sensor/button of this zone is triggered, it would make a doorbell sound. Beyond this period, it would not work even if being triggered.

Normal zone Sensor in this zone would alarm in armed state.

24 hours zone sensor in this zone would alarm either in armed or disarmed state. It is armed 24 hours. It is suitable for smoke sensor, gas sensor and water leakage sensor, etc.

Delay zone Sensor in this zone would arm after a preset delay timer, so that user has enough time to leave the area. Also when the user comes back, the sensor would not alarm immediately, it would also allow user some time to enter the premise without triggering the alarm. The sensor in other zones would not be subject to this.

e. g. we normally set the door sensor in the entry door to delay zone. When user goes out, press the arm key, the door sensor has 15seconds delay, so user could go out during the 15 seconds without worrying triggering the alarm. The door sensor would be armed after 15 seconds. When users comes back, the door sensor is triggered and would not alarm immediately, it would wait 15s before it alarms. User could disarm the panel within the 15s.

Stay zone sensors would not alarm if being triggered in stay arm state.

e. g. if we put the living room pir into stay arm zone, put the pir in the yard to normal zone. When you are at home, you could stay arm the system, so when you walk around and trigger the living room pir, it would not alarm. Only when stranger trigger the pir in the yard, and then it would trigger the alarm.

Text command

Away arm— send text "<password>, arm;" e.g. send <123456>, arm;

Disarm— send text "<password>, disarm;" e.g. send <123456>, disarm;

Check the state— send text "<password>, check;" e.g. send <123456>, check;

Reset the default password— send text "recovery password forced;"

Control the relay output, send text "〈password〉, relay, 〈num〉, 〈state〉;"

a. 〈123456〉, relay, 〈0〉, 〈0〉, the first 0 means the relay NO. the second 0 means open (1 means closed)
b. 〈123456〉, relay, 〈1〉, 〈1〉, the first 1 means the relay NO. the second 1 means closed (0 means open)

〈password〉 is the panel password, 〈num〉 is the relay No. (0 or 1), 〈state〉 is the relay state

Recording and recording binding

Recording Planning

a. The panel could have a max. 180 seconds recording. You could record them in several segments. The recording would auto play when the panel alarms, so that user could know the alarm place and which zone triggering the alarm.

b. The recording played after alarm could be divided into 2 parts, one is the main message, the other is the zone message.

c. The main message could be an address, like, "room No ? Building NO? alarm" or "computer room ?? NO. ? area alarming" so that user could know where the alarm is when he has installed more than one panel.

Zone message would suggest which zone alarm, like "zone 2 fire alarms"

"zone 3 gas leakage alarms" etc. User could make records, make difference in the recording file names, and then bind them to different zones according to his needs.

Operation Steps

a. Recording: Enter the menu "alarm system" — choose "alarm setting"—choose "alarm voice setting" — press ↩ key go to the recording interface ,Press ↩ — choose the "new recording" — press ↩ to start recording.

b. Bind the recording to zones: Enter the menu "alarm system" — choose "alarm setting"--- choose "alarm voice setting" — press ↩ key go to therecording interface — Press ↩ — choose ' list" — choose the voice file you just recorded, press ↩ — choose "use" — it shows the main message or zone numbers — press the up/down key to choose — at last press ↩ key to save it.

Wired zone enabling and binding with zones

The panel could connect 16pcs wired sensors. After connecting the wired sensors, user has to enable it on the panel and then binding it to zones in following steps:
Enter "alarm system" menu ---- choose "wired/wireless setting" ---choose "enable wired zone" --- press ↩ key--- it shows wired port 0 to 15 --- choose the port which you have connected wired sensor --- press ↩ — choose enable. At last, choose the zone you plan to allocate the sensor to.

Bind relay to specific zones

The panel has 14 relay outputs. The relays could be controlled by a text command, and they also could be bound to specific zones. If one relay is bound to a zone, that means, once the sensor in this zone is alarming, the relay would be driven. When the alarm is disarmed, the relay would go back to its original state.
How to bind: enter "alarm system" — choose "wired/wireless setting" — choose ' output binding to zones"— press ↩ key — choose the zone No — press ↩ key. One relay could be bound to multiple zones, and one zone could bind multiple relays too.

How to trigger different wireless sensors

Door sensor— Put the main part and magnet together and then separate them, the red led flashes, and that means it is triggered. Pir sensor— Turn on the sensor switch or you simply move in front of the sensor, its red led flashes, and that means it is triggered. Smoke sensor— Press the key on the sensor, the led flashes and the sensor sounds beep, that means it is triggered. Gas sensor— Press the test key on the sensor, its led flashes, and that means it is triggered. Water leakage sensor— there are 4 screws under the product, use your hand or a conductor short circuits any of the 2 diagonal screws, the led flashes, and that means it is triggered.

Wireless temperature sensor — Press the OK key（the one in the middle of the 3）and hold it for 2 seconds, the number on the lcd slightly flashes, and that means it is triggered and transmitting code.

Trigger the wireless sensor means the wireless sensor transmits the wireless code. The panel could receive and save this code. After that, the sensor could work with the panel. Different sensors have different triggering ways.

Alarm handling and remote operation

Alarm handling: when the panel alarms, it would auto dial the preset alarm numbers in sequence. Once user gets the alarm call, he could pick up the phone and press * key to confirm the alarm and hear the recording. Then panel would not dial the next numbers. If user does not press *, panel would continue to dial the next number and it would repeat the whole process in 3 circles. User could press 9 to rehear the recording.

After the panel alarms, user picks up the phone, and then he could remotely control the panel by the keys on the phone. Press 1 to listen in; press 2 to speak; press 4 to turn off the listen in and speak; press 3 to sound the siren; press 6 to turn off the siren; press 7 to arm; press 8 to disarm; press 9 to hear the alarm recording again; Press 5 to hang up.

User also could dial the panel number and remote control it. Call the panel, the panel would pick up the phone and says: please input the password. User enters the password (default is 123456), and then he could remote control the panel: Press 1 to listen in; press 2 to speak; press 4 to turn off the listen in and speak; press 3 to sound the siren; press 6 to turn off the siren; press 7 to arm; press 8 to disarm; press 9 to hear the alarm recording again; Press 5 to hang up, or user could hang it up directly.

Installation and usage notice

1. Indoor use and not waterproof, please do not install it outdoors.
2. Do not put it near metal case, TV set, PC or other objects with strong electromagnet interference.
3. Turn off the panel before you insert or take off the simcard.
4. Make sure the power supply is well fitted and cooled.
5. Keep a regular check of the sim card.（make sure it has enough balance）
6. Keep a regular test of the panel performance.